

# SACCBP-FSD-4P-PG9/1,065-937 RT - Flush-type connector



1419454

<https://www.phoenixcontact.com/us/products/1419454>

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Flush-type connector, 4-position, Bus line

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1419454       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 50 pc         |
| Product key                          | ABQYAA        |
| GTIN                                 | 4055626170855 |
| Weight per piece (including packing) | 94 g          |
| Weight per piece (excluding packing) | 94 g          |
| Country of origin                    | DE            |

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## Technical data

### Notes

#### Safety note

|  |  |
|--|--|
| Safety note  | <p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p>  |
|  | <ul style="list-style-type: none"><li>• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li></ul>  |
|  | <ul style="list-style-type: none"><li>• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.</li></ul> |
|  | <ul style="list-style-type: none"><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li></ul>  |
|  | <ul style="list-style-type: none"><li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li></ul>   |
|  | <ul style="list-style-type: none"><li>• Assembled products may not be manipulated or improperly opened.</li></ul>  |
|  | <ul style="list-style-type: none"><li>• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li></ul>   |
|  | <ul style="list-style-type: none"><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li></ul>   |
|  | <ul style="list-style-type: none"><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li></ul>  |
|  | <ul style="list-style-type: none"><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li></ul>  |
|  | <ul style="list-style-type: none"><li>• Observe the corresponding technical data. You will find information:<ul style="list-style-type: none"><li>o On the product</li><li>o On the packing label</li><li>o In the supplied documentation</li><li>o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li></ul></li></ul>  |
|  | <ul style="list-style-type: none"><li>• Only use tools recommended by Phoenix Contact</li></ul>  |
|  | <ul style="list-style-type: none"><li>• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a></li></ul>   |
|  | <ul style="list-style-type: none"><li>• Ensure that the protective or functional ground has been properly connected.</li></ul>   |
| <ul style="list-style-type: none"><li>• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector</li></ul>  |  |
| <ul style="list-style-type: none"><li>• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting</li></ul> |  |

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warnings (e.g. DIN EN ISO 13732-1:2008-12).

## Product properties

|                     |   |
|---------------------|---|
| Number of positions | 4 |
| Coding              | D |

## Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 3  |

## Electrical properties

|   |                       |
|---|-----------------------|
| Rated surge voltage                     | 2.5 kV AC             |
| Nominal voltage $U_N$                   | 250 V                 |
| Nominal current $I_N$                   | 4 A                   |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

## Connection data


|                   |            |
|-------------------|------------|
| Connection method | Bus line   |
| Tightening torque | 2 ... 3 Nm |

## Material specifications

|  |    |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

## Cable/line

PROFINET RADOX® railway application CAT5 [937]

|                           |  |
|---------------------------|--|
| Dimensional drawing       |  |
| Shielded                  | yes  |
| Cable weight              | 70 kg/km   |
| Cable type                | PROFINET RADOX® railway application CAT5   |
| Cable type (abbreviation) | 937  |
| Signal type/category      | PROFINET CAT5 (IEC 11801), 100 Mbps<br>EtherCAT® CAT5 (IEC 11801), 100 Mbps          |
| Cable structure           | 1x4xAWG22/7, SF/TQ   |
| External cable diameter   | 6.60 mm ±0.4 mm  |
| Outer sheath, material    | PE-X   |
| External sheath, color    | black RAL 9005   |
| Thickness, outer sheath   | approx. 1.00 mm  |

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|  |   |
|--|---|
| Conductor material                         | silver-plated Cu litz wires   |
| Conductor structure signal line            | 7x 0.25 mm  |
| AWG signal line                            | 22  |
| Conductor cross-section                    | 4x 0.34 mm <sup>2</sup>   |
| Material wire insulation                   | Foamed PE   |
| Wire diameter incl. insulation             | approx. 1.5 mm  |
| Single wire, color                         | white-blue, orange-yellow   |
| Overall twist                              | Star quad   |
| Shielding                                  | Plastic-coated aluminum foil, tinned copper braided shield  |
| Nominal voltage, cable                     | 300 V AC  |
| Test voltage, cable                        | 2000 V AC (50 Hz, 5 minutes)  |
| Cable resistance                           | ≤ 54.4 Ω/km   |
| Coupling resistance                        | 200.00 mΩ/m (f ≤ 30 MHz)  |
| Wave impedance                             | 100 Ω ±5 Ω (f = 100 MHz)  |
| Working capacitance                        | ≤ 65 pF (Line-line)<br>≤ 100 pF (Line-shield)   |
| Signal speed                               | 75 c  |
| Minimum bending radius, fixed installation | 6 x D   |
| Remote crosstalk attenuation (FEXT)        | 78 dB (with 1 MHz)<br>77 dB (at 4 MHz)<br>70 dB (at 10 MHz)<br>65 dB (at 31.5 MHz)<br>56 dB (at 62.5 MHz)<br>48 dB (at 100 MHz)   |
| Near end crosstalk attenuation (NEXT)      | 73 dB (with 1 MHz)<br>70 dB (at 4 MHz)<br>65 dB (at 10 MHz)<br>57 dB (at 31.5 MHz)<br>52 dB (at 62.5 MHz)<br>48 dB (at 100 MHz)   |
| Return attenuation (RL)                    | 25 dB (at 4 MHz)<br>30 dB (at 10 MHz)<br>30 dB (at 31.5 MHz)<br>30 dB (at 62.5 MHz)<br>28 dB (at 100 MHz)   |
| Shield attenuation                         | 40.00 dB (30 MHz ≤ f ≤ 100 MHz)   |
| Fire protection in rail vehicles           | BS 6853 (Category Ia, Ib, II)<br>GM/RT 2130 (Category Ia, Ib, II)<br>EN 45545 (Risk level HL1 - HL3)<br>DIN 5510 (Fire protection level 1, 2, 3, 4)<br>NF F16-101 (Category A1, A2, B)<br>NF F16-101 (Class C/F0)<br>NFPA 130<br>UNI CEI 11170 (Risk level LR1 - LR4) |

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|                                 |  |
|---------------------------------|--|
| Halogen-free                    | in accordance with EN 50267-2-1                            |
| Resistance to oil               | according to IRM 902, 72 h at 100 °C                       |
| Concentration of fumes          | BS 6853 D.8.7  |
|                                 | EN 61034-2   |
|                                 | UL 1685, 12 (FT4)  |
| Fume toxicity                   | BS 6853 B.1  |
|                                 | EN 50305, 9.2  |
| Fume corrosiveness              | EN 50267-2-2   |
| Flame resistance                | IEC 60332-1-2  |
|                                 | EN 50266   |
|                                 | EN 60332-3-25  |
|                                 | NF C32-070, 2.1  |
|                                 | NF C32-070, 2.2  |
|                                 | UL 1685, 12 (FT4)  |
|                                 | in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)       |
| Other resistance                | Resistance to fuels (according to IRM 903, 168 h at 70 °C) |
| Ambient temperature (operation) | -40 °C ... 90 °C (Cable, flexible installation)            |
|                                 | -50 °C ... 90 °C (cable, fixed installation)               |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                        |
|---------------------------------|------------------------|
| Degree of protection            | IP67 (When plugged in) |
|                                 | IP65 (When plugged in) |
|                                 | IP65/IP67              |
| Ambient temperature (operation) | -25 °C ... 85 °C       |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Standards/specifications | according to IEC 61076-2-101 |
|--------------------------|------------------------------|

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |      |
|---|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                      |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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